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1 Downlink scheduling in CDMA data networks

 Niranjan Joshi, Srinivas R. Kadaba, Sarvar Patel, Ganapathy S. Sundaram
 August 2000 **MobiCom '00: Proceedings of the 6th annual international**
Publisher: ACM [Request Permissions](#)

Full text available: Pdf (1.24 MB)

 Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 43, Downloads

Packet data is expected to dominate third generation wireless networks and interesting problems. Physical and link layer issues have been studied

2 Online geometric reconstruction

Bernard Chazelle, C. Seshadhri

 June 2006 **SCG '06: Proceedings of the twenty-second annual symposium**
Publisher: ACM [Request Permissions](#)

Full text available: Pdf (247.88 KB)

 Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 27, Downloads

We investigate a new class of geometric problems based on the idea of geometric dataset though a query mechanism; for example, the dataset

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Keywords: computational geometry, sublinear algorithms

3 BugNet: Continuously Recording Program Execution for Deterministic

Satish Narayanasamy, Gilles Pokam, Brad Calder

 June 2005 **ISCA '05: Proceedings of the 32nd annual international symposium**
Publisher: ACM

Full text available: Pdf (204.07 KB)

 Additional Information: [full citation](#)
Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 117, Downloads


Significant time is spent by companies trying to reproduce and fix the bugs proposed by the BugNet architecture to continuously record information on program

Also published in:

 May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2






4 Precise memory leak detection for java software using container profile

Guoqing Xu, Atanas Rountev

- May 2008 **ICSE '08**: Proceedings of the 30th international conference
Publisher: ACM
 Full text available:  Pdf (565.72 KB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 132, Downloads

A memory leak in a Java program occurs when object references that are difficult to understand because static analyses typically cannot precisely

Keywords: container profiling, leaking confidence, memory leaks




- 5 [PeerReview: practical accountability for distributed systems](#)
 Andreas Haeberlen, Petr Kouznetsov, Peter Druschel
 October 2007 **SOSP '07**: Proceedings of twenty-first ACM SIGOPS symposium
Publisher: ACM  Request Permissions
 Full text available:  FLV (30:37 MIN),  Mp3 (12.86 MB),  Pdf (363.72 KB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 180, Downloads

We describe PeerReview, a system that provides accountability in distributed effects are observed by a correct node are eventually detected and irreversibly

Keywords: accountability, byzantine faults, distributed systems, fault containment




Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

- 6 [User interface façades: towards fully adaptable user interfaces](#)
 Wolfgang Stuerzlinger, Olivier Chapuis, Dusty Phillips, Nicolas Rousel
 October 2006 **UIST '06**: Proceedings of the 19th annual ACM symposium
Publisher: ACM  Request Permissions
 Full text available:  Pdf (1.95 MB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 251, Downloads

User interfaces are becoming more and more complex. Adaptable and and previous studies have shown that users prefer interfaces that they can

Keywords: adaptable user interfaces

- 7 [A regulated transitive reduction \(RTR\) for longer memory race records](#)
 Min Xu, Mark D. Hill, Rastislav Bodik
 November 2006 **ASPLOS-XII**: Proceedings of the 12th international conference on operating systems
Publisher: ACM  Request Permissions
 Full text available:  Pdf (524.02 KB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 71, Downloads

Now at VMware. Multithreaded deterministic replay has important applications


analysis. Memory race recording is a key technology for multithreaded c

Keywords: determinism, multithreading, race recording

Also published in:


October 2006 **SIGARCH Computer Architecture News** Volume 34 Issue 5
 October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 5
 November 2006 **SIGPLAN Notices** Volume 41 Issue 11

8 Forward-secure signatures with untrusted update

 Xavier Boyen, Hovav Shacham, Emily Shen, Brent Waters

October 2006 **CCS '06: Proceedings of the 13th ACM conference on Comp**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (261.19 KB)

Additional Information: [full citati](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 92, Downloa

In most forward-secure signature constructions, a program that update: private key. Unfortunately, these schemes are incompatible with severa


Keywords: digital signatures, forward security, two-factor authenticati

9 Performance debugging for distributed systems of black boxes

 Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Ati

December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (408.85 KB)

Additional Information: [full citati](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 227, Downl


Many interesting large-scale systems are distributed systems of multiple to debug, especially when they exhibit poor performance. The problem I box" ...

Keywords: black box systems, distributed systems, performance analy

Also published in:


December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

10 Secure web service federation management using tpm virtualisation

 Srijiith Krishnan Nair, Ivan Djordjevic, Bruno Crispo, Theo Dimitrakos

November 2007 **SWS '07: Proceedings of the 2007 ACM workshop on Secu**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (382.31 KB)

Additional Information: [full citati](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 109, Downl

Web Services and SOA provide interoperability and architectural baselin where execution and use of the participating services contributes to the

Keywords: federation, membership management, security, trusted cor

11 [Improved proxy re-encryption schemes with applications to secure d](#)



Giuseppe Ateniese, Kevin Fu, Matthew Green, Susan Hohenberger

February 2006

Transactions on Information and System Security (TI

Publisher: ACM

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Full text available: [Pdf](#) (331.59 KB)

[Additional Information: full citati](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 176, Downl

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed an application cal
converts a ciphertext for Alice into a ciphertext for Bob *without* seeing t

Keywords: Proxy re-encryption, bilinear maps, double decryption, key

12 [FPGA-friendly code compression for horizontal microcoded custom I](#)



Bitra Gorjara, Daniel Gajski

February 2007

FPGA '07: Proceedings of the 2007 ACM/SIGDA 15th interr

Publisher: ACM

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Full text available: [Pdf](#) (347.47 KB)

[Additional Information: full citati](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 32, Downloa

Shrinking time-to-market and high demand for productivity has driven t
start from high-level languages. However, meeting timing constraints o

Keywords: FPGA, dictionary-based compression, memory optimization

13 [Shadow Profiling: Hiding Instrumentation Costs with Parallelism](#)



Tipp Moseley, Alex Shye, Vijay Janapa Reddi, Dirk Grunwald, Ramesh Peri

March 2007

CGO '07: Proceedings of the International Symposium on C

Publisher: IEEE Computer Society

Full text available: [Pdf](#) (301.00 KB)

[Additional Information: full citati](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 128, Downlo

In profiling, a tradeoff exists between information and overhead. For ex
but the information they collect is consequently very coarse. Other profi

14 [CHI '06 extended abstracts on Human factors in computing systems](#)



Gary Olson, Robin Jeffries

April 2006

CHI '06: CHI '06 extended abstracts on Human factors in c




Publisher: ACM

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

Welcome to the CHI 2006 *Extended Abstracts*. We hope that you will en
have made. For the first time this year, we encouraged submissions froi

15 [Combinators for bidirectional tree transformations: A linguistic appro](#)

-  J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. P.
May 2007 **Transactions on Programming Languages and System**
Publisher: ACM  [Request Permissions](#)
Full text available:  Pdf (1.06 MB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 147, Download




We propose a novel approach to the *view-update problem* for tree-structured expressions denote bidirectional transformations on trees. In one direction,

Keywords: Bidirectional programming, Harmony, XML, lenses, view updates

- 16 [A region-based compilation technique for dynamic compilers](#)
 Toshio Suganuma, Toshiaki Yasue, Toshio Nakatani
January 2006 **Transactions on Programming Languages and System**
Publisher: ACM  [Request Permissions](#)
Full text available:  Pdf (977.63 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 107, Download




Method inlining and data flow analysis are two major optimization components that suffer from the existence of rarely or never executed code contained in

Keywords: JIT compiler, Region-based compilation, dynamic compilation

- 17 [Environment modification in a simulated human-robot interaction task](#)
 Robert St. Amant, David B. Christian
January 2003 **IUI '03: Proceedings of the 8th international conference on**
Publisher: ACM  [Request Permissions](#)
Full text available:  Pdf (135.21 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 12, Download


This paper describes a novel approach to human-robot interaction, in which actions, rather than programming its controller. An HRI simulation of a

Keywords: external representation, human-robot interaction, simulation


- 18 [Time will tell: in-game social interactions that facilitate second language](#)
 Yolanda A. Rankin, Deidra Morrison, McKenzie McNeal, Bruce Gooch, Marcel
April 2009 **FDG '09: Proceedings of the 4th International Conference on**
Publisher: ACM  [Request Permissions](#)
Full text available:  Pdf (329.98 KB) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 111, Download

Prior research indicates that gameplay experiences attributed to Massive Multiplayer Online Role-Playing Games (MMORPGs) can improve foreign language students' ability to communicate with players in the target

Keywords: collaborative gameplay, computer mediated communication, role playing games, second language acquisition, social computing, video

- 19 [Respec: efficient online multiprocessor replay via speculation and ext](#)
 Dongyoon Lee, Benjamin Wester, Kaushik Veeraraghavan, Satish Narayan
 March 2010 **ASPLOS '10: Proceedings of the fifteenth edition of ASPLOS: operating systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (556.54 KB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 59, Downloads

Deterministic replay systems record and reproduce the execution of a hardware replay uniprocessor systems, replaying shared memory multiprocessor systems

Keywords: external determinism, replay, speculative execution

Also published in:


March 2010 **SIGARCH Computer Architecture News** Volume 38 Issue 1

March 2010 **SIGPLAN Notices**

Volume 45 Issue 3

- 20 [Cross-component energy management: Joint adaptation of processor](#)
 Xiaodong Li, Ritu Gupta, Sarita V. Adve, Yuanyuan Zhou
 September 2007 **Transactions on Architecture and Code Optimization**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (435.78 KB)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 69, Downloads

Researchers have proposed the use of adaptation to reduce the energy consumption of processor, memory, disk, and display for general-purpose applications.

Keywords: Energy management, adaptive systems, control algorithms, processor

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